

APPROVED	
APPROVED	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS
DRAFTSMAN	

Title: TIME-BASED MODELING
 Inventor: Jonathan M. FRIEDMAN and Flynn D. FRIEDMAN
 Application No.: To Be Assigned
 Docket No.: 410862000111

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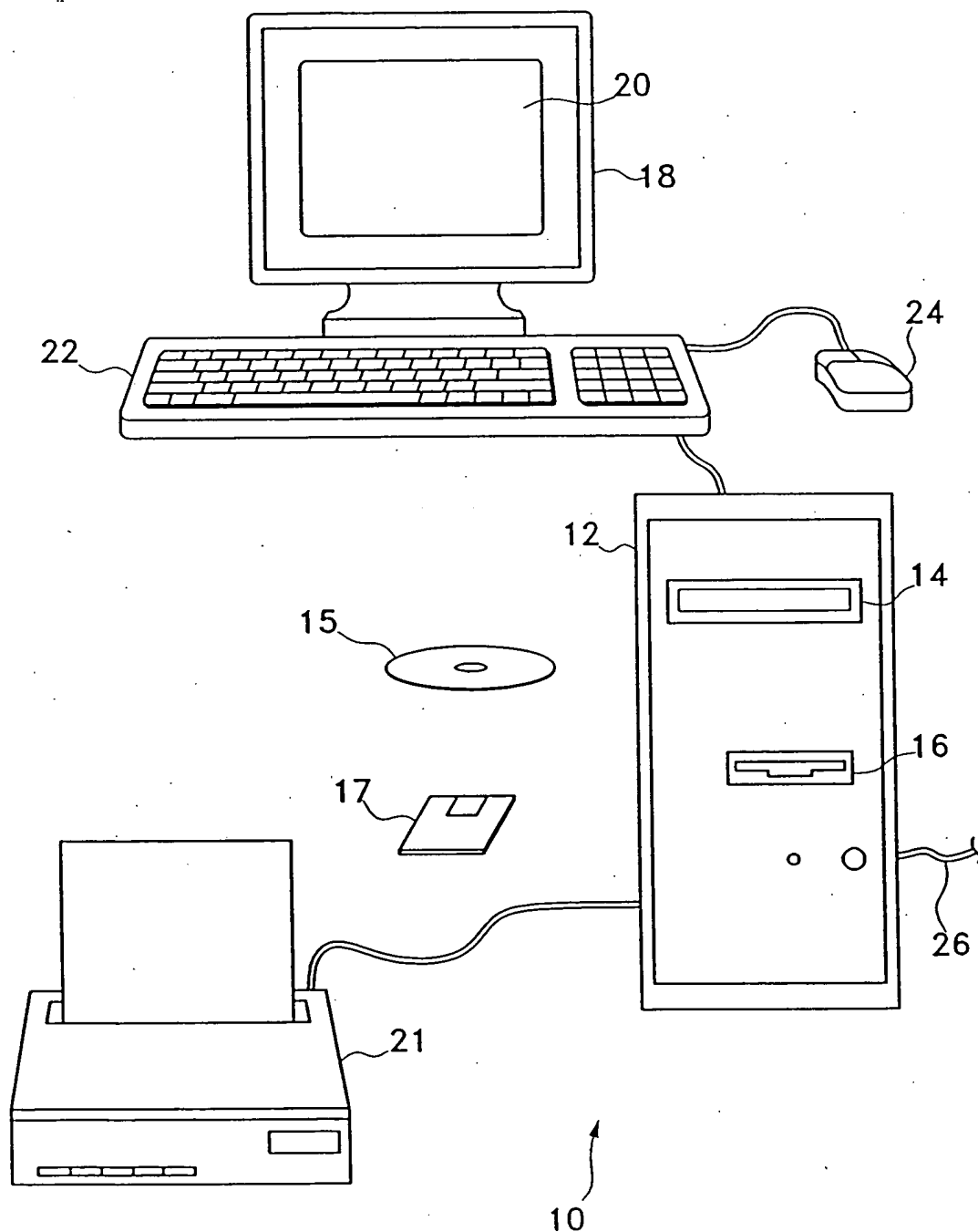
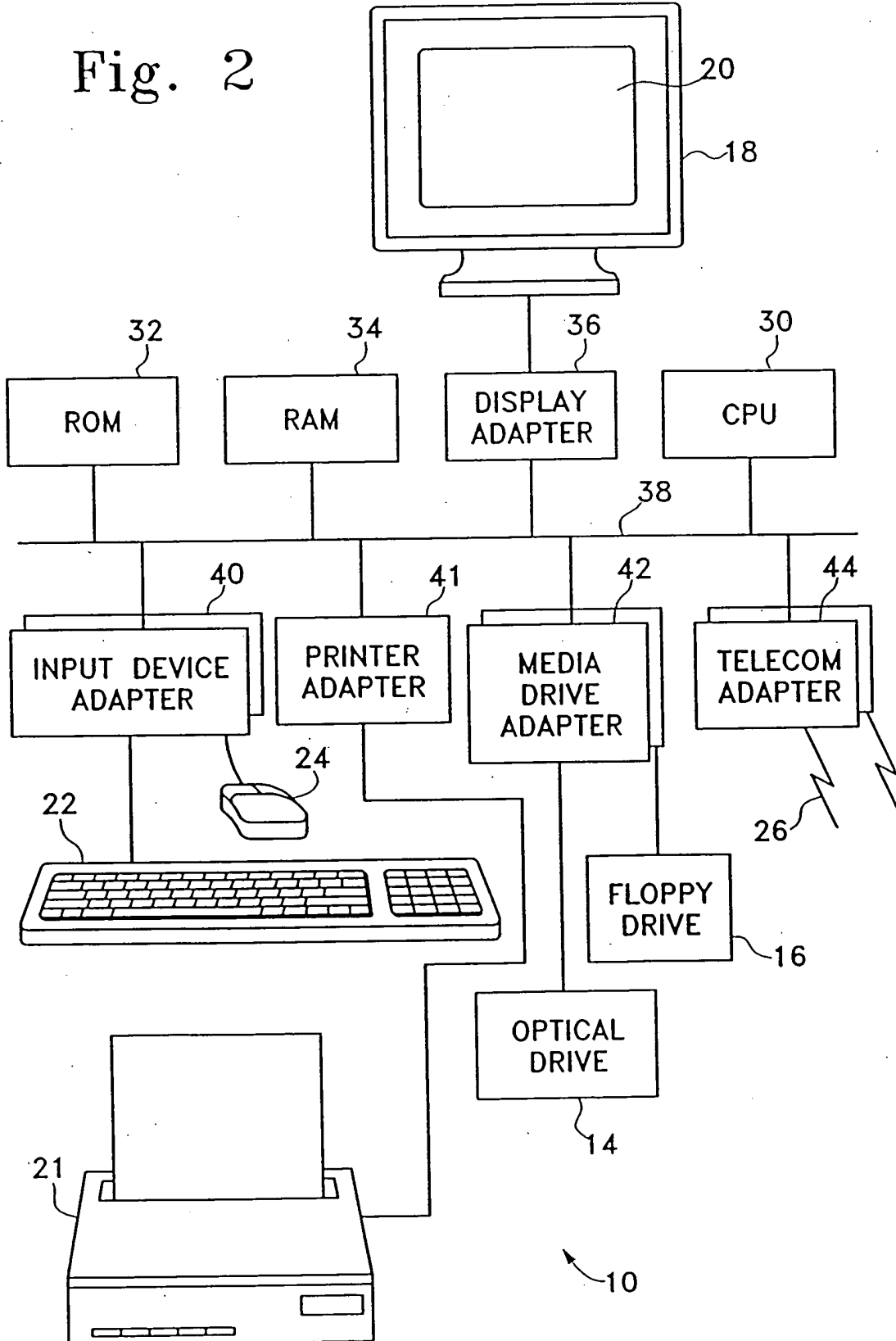
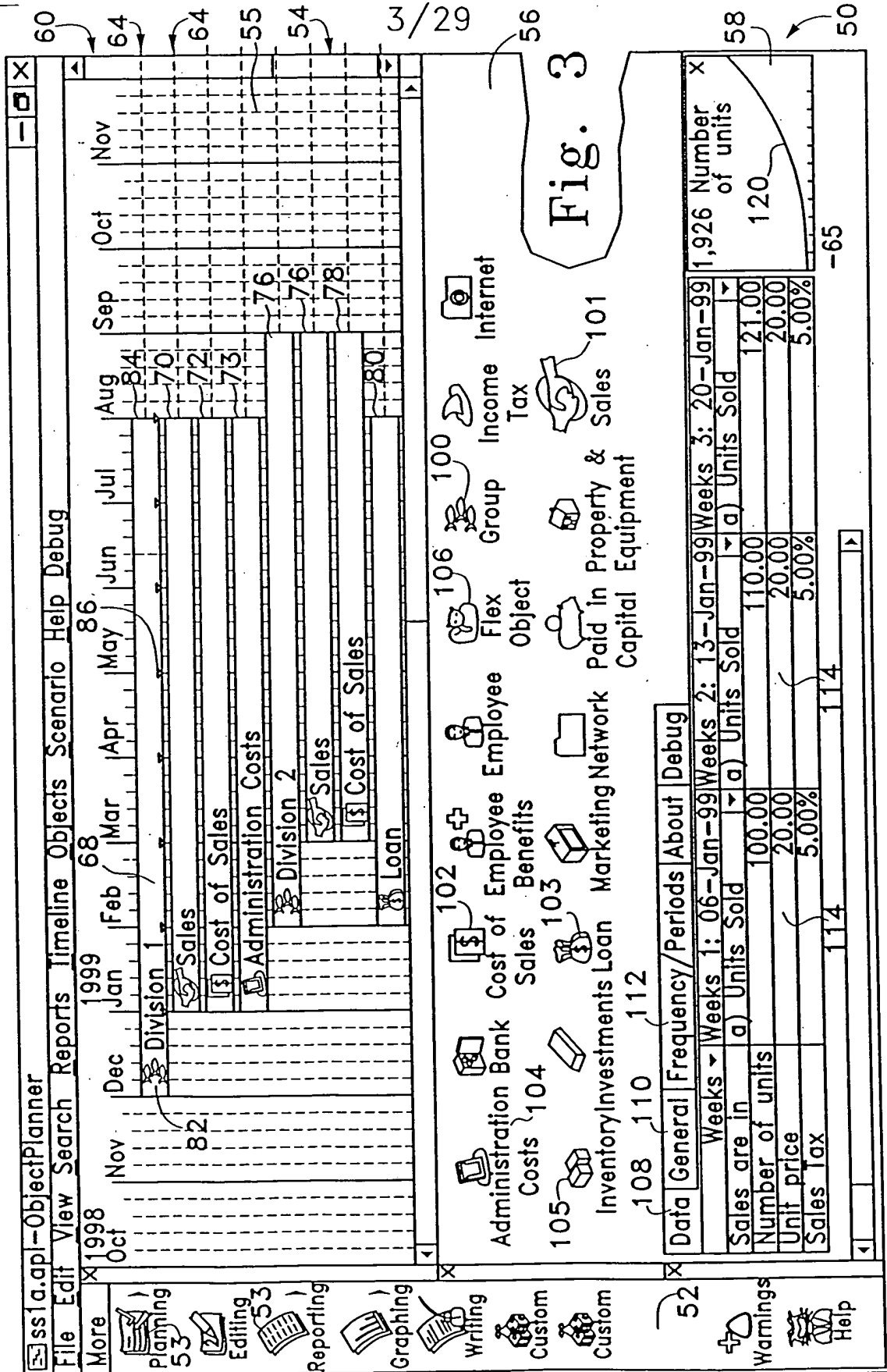


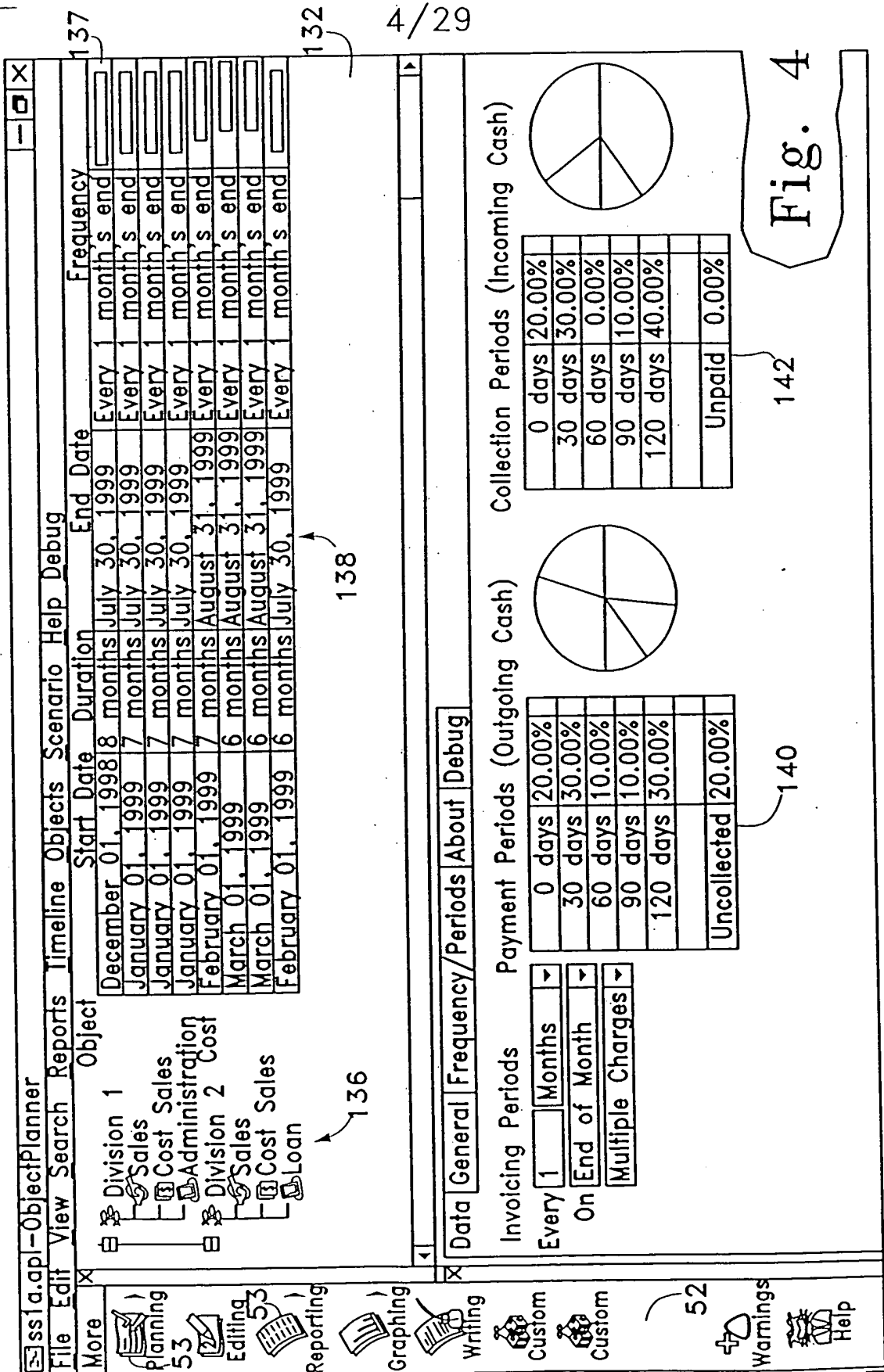
Fig. 1

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Fig. 2







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Title: TIME-BASED MODELING
 Instructor: Jonathan M. FRIEDMAN and Flynn D. FRIEDMAN
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 Fig. 5

ss1a.apl-ObjectPlanner				
File	Edit	View	Search	Reports
Timeline Objects Scenario Help Debug				
More	Planning	52	Editing	52
Reporting	Graphing	Writing	Custom	Custom
Warnings	Help			

Object	Start Date	Duration	End Date	Frequency
Division 1	December 01, 1998	8 months	July 30, 1999	Every 1 month's end
Sales	January 01, 1999	7 months	July 30, 1999	Every 1 month's end
Cost Sales	January 01, 1999	7 months	July 30, 1999	Every 1 month's end
Administration	January 01, 1999	7 months	July 30, 1999	Every 1 month's end
Division 2 Costs	February 01, 1999	7 months	August 31, 1999	Every 1 month's end
Sales	March 01, 1999	6 months	August 31, 1999	Every 1 month's end
Cost Sales	March 01, 1999	6 months	August 31, 1999	Every 1 month's end
Loan	February 01, 1999	6 months	July 30, 1999	Every 1 month's end

Change	Time
<input checked="" type="checkbox"/> Cost of Sales's Start Date changed from Wed, Dec 30, 1998 to Fri, Jan 01, 1999	10/14/98 16:24:43
<input checked="" type="checkbox"/> Loan's Start Date changed from Mon, Mar 01, 1999 to Mon, Feb 01, 1999	10/14/98 16:24:33
<input checked="" type="checkbox"/> Loan created	10/14/98 16:24:28
<input checked="" type="checkbox"/> Cost of Sales' Duration changed from 4 months to 7 months	10/14/98 16:24:18
<input checked="" type="checkbox"/> Cost of Sales' Start Date changed from Thur, Mar 04, 1999 to Mon, Mar 01, 1999	10/14/98 16:24:15
<input checked="" type="checkbox"/> Cost of Sales' Duration changed from 4 months to 6 months	10/14/98 16:24:11
<input checked="" type="checkbox"/> Cost of Sales' Start Date changed from Wed, Dec 30, 1998 to Fri, Jan 01, 1999	10/14/98 16:24:09
<input checked="" type="checkbox"/> Division 1's Name changed from Division 1 to Division 2	10/14/98 16:23:49
<input checked="" type="checkbox"/> Cost of Sales' Start Date changed from Fri, Jan 29, 1999 to Mon, Feb 01, 1999	10/14/98 16:23:45
<input checked="" type="checkbox"/> Division 1 posted	10/14/98 16:23:43
<input checked="" type="checkbox"/> Group's Name changed from Group to Division 1	10/14/98 16:23:34
<input checked="" type="checkbox"/> Cost of Sales' Percent of sales changed from 0.00% to 20.00%	10/14/98 16:23:19
<input checked="" type="checkbox"/> Sales' Every changed from 1 month to Every 1 month's end	10/14/98 16:23:11

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Investigator: Jonathan M. FRIEDMAN and Flynn D. FISHERMAN

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File	Edit	View	Search	Reports	Timeline	Objects	Scenario	Help	Debug
More	Planning	53	Editing	53	Reporting	Graphing	Writing	Custom	Custom
52	Warnings	52	Help						

ss1a.apl-ObjectPlanner

Fig. 6

My Business

INCOME FORECAST

FOR THE PERIOD ENDED Friday, September 29, 2000

29-Jan-99

26-Feb-99

31-Mar-99

30-Apr-99

31-May-99

30-Jun-99

30-Jul-99

REVENUE	300.00	270.00	243.00	218.70	196.83	177.15	159.43
Division 1 Sales			673.49	1,037.50	1,449.95	2,223.97	3,581.72
Division 2 Sales							
TOTAL REVENUE	\$300.00	\$270.00	\$916.49	\$1,256.20	\$1,646.78	\$2,401.11	\$3,741.15
COST OF GOODS AND SERVICES							
Cost of materials	60.00	54.00	183.30	251.24	329.36	480.22	748.23
Production payroll		2,500.00	2,500.00	2,500.00	2,500.00	2,500.00	2,500.00
Direct costs							
TOTAL COST OF SALES	\$60.00	\$2,554.00	\$2,683.30	\$2,751.24	\$2,829.36	\$2,980.22	\$3,248.23
GROSS PROFIT	\$240.00	(\$2,284.00)	(\$1,766.81)	(\$1,495.04)	(\$1,182.57)	(\$579.11)	\$492.92
TOTAL ADMINISTRATION EXPENSES	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00
TOTAL OPERATING EXPENSES	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00	\$145.00
NET INCOME	\$95.00	(\$2,429.00)	(\$1,911.81)	(\$1,640.04)	(\$1,327.57)	(\$724.11)	\$347.92
CUMULATIVE NET INCOME	\$95.00	(\$2,334.00)	(\$4,245.81)	(\$5,885.85)	(\$7,213.43)	(\$7,937.54)	(\$7,589.61)

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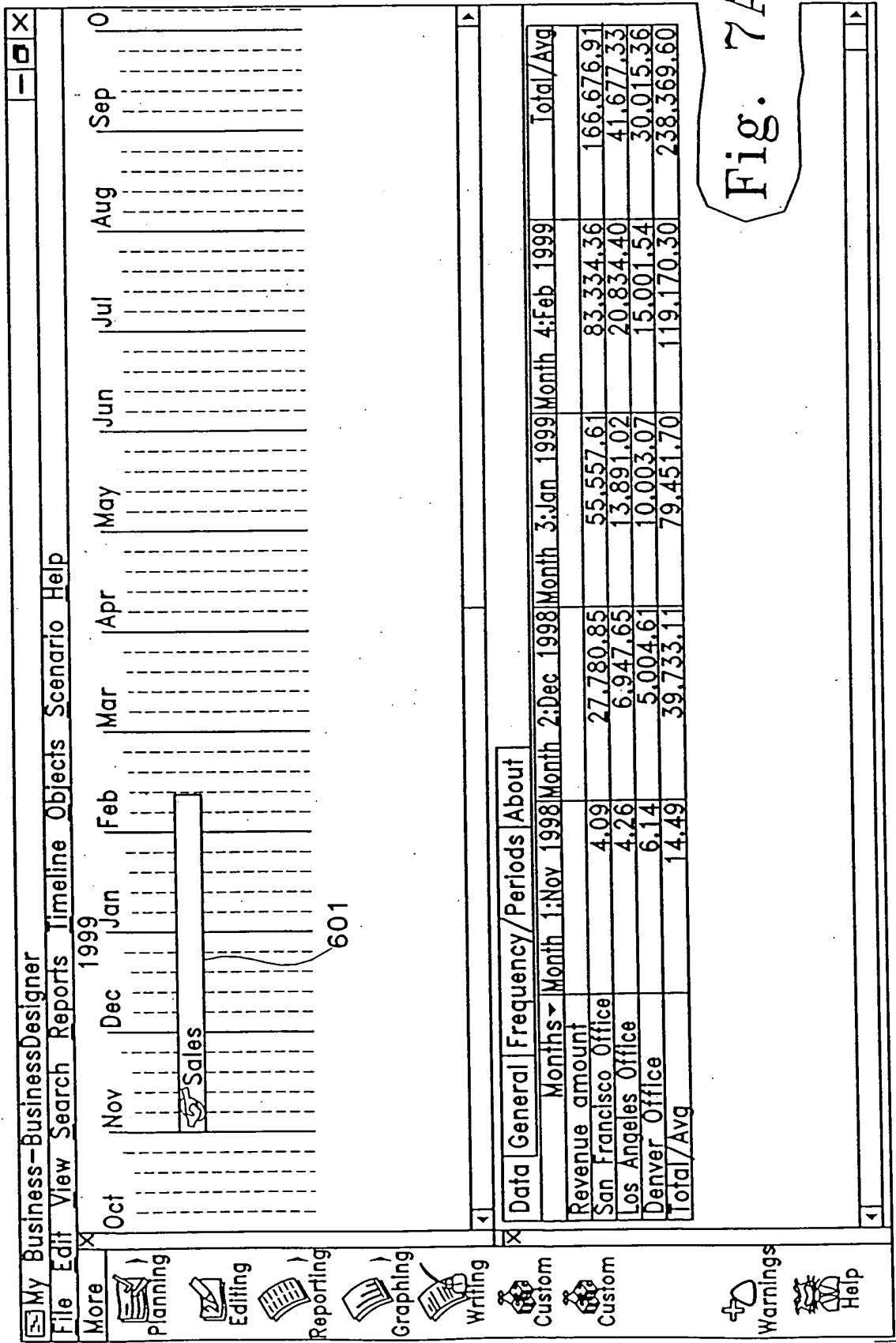


Fig. 7A

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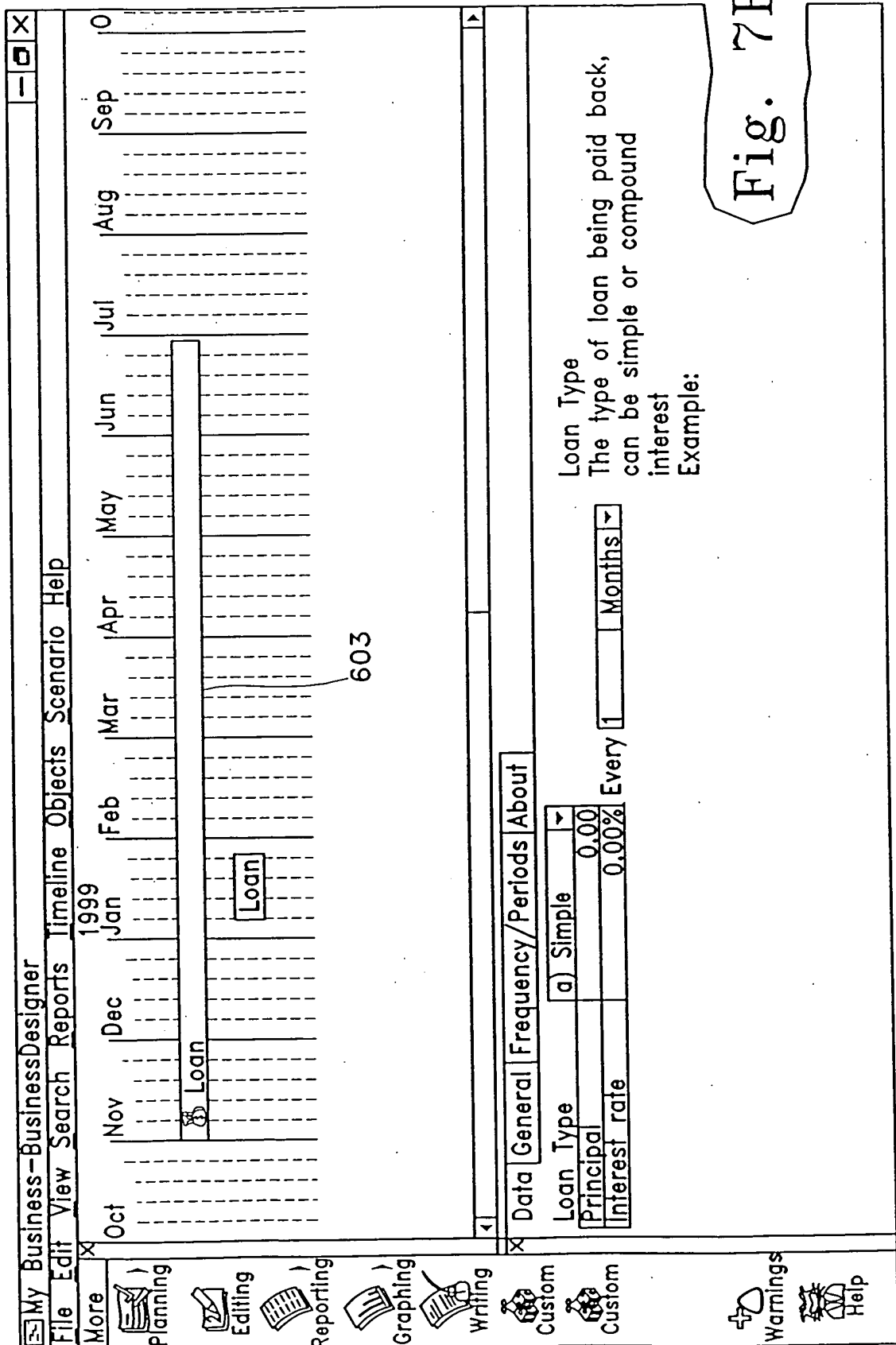
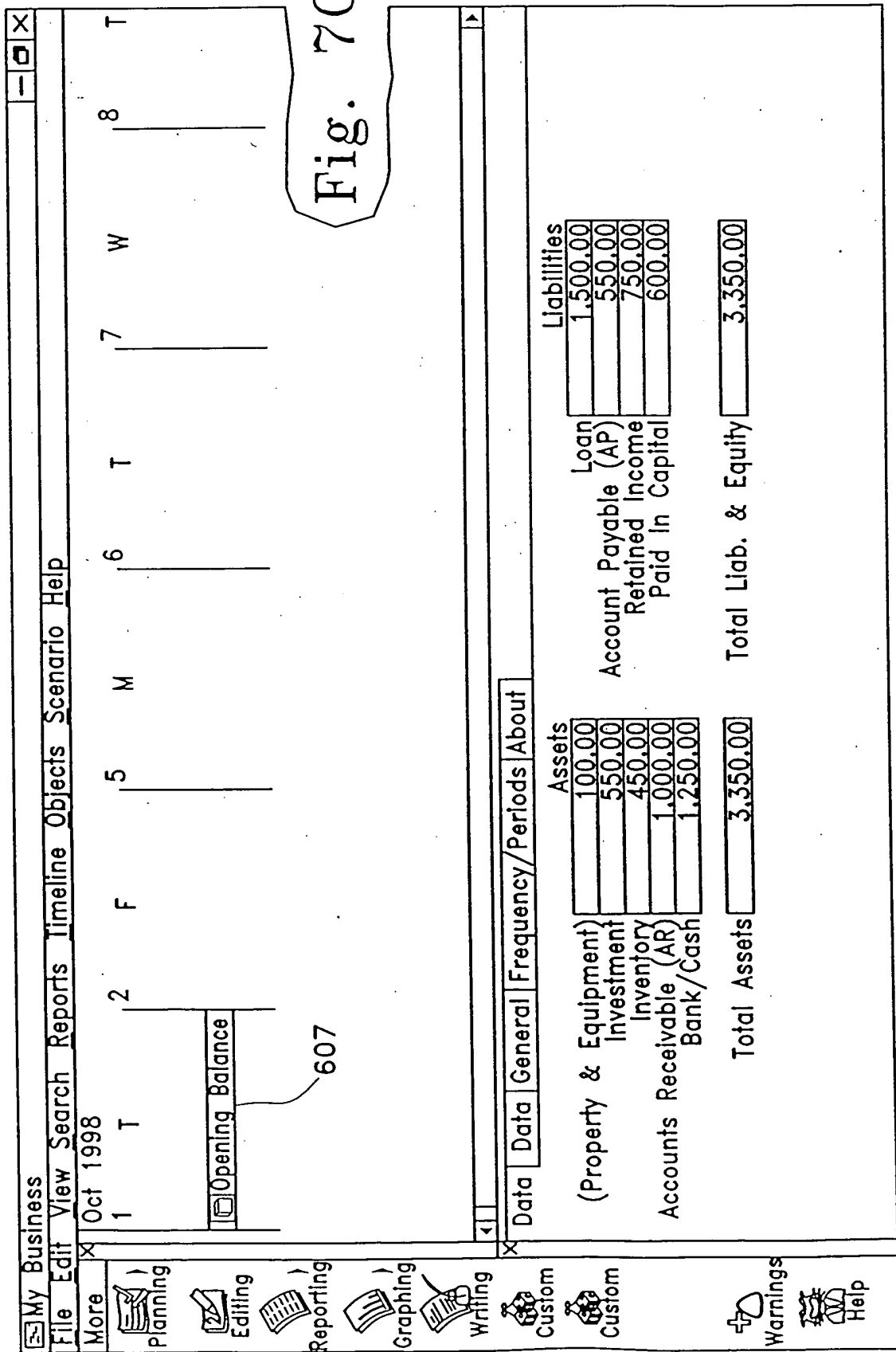


Fig. 7B

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Fig. 7C



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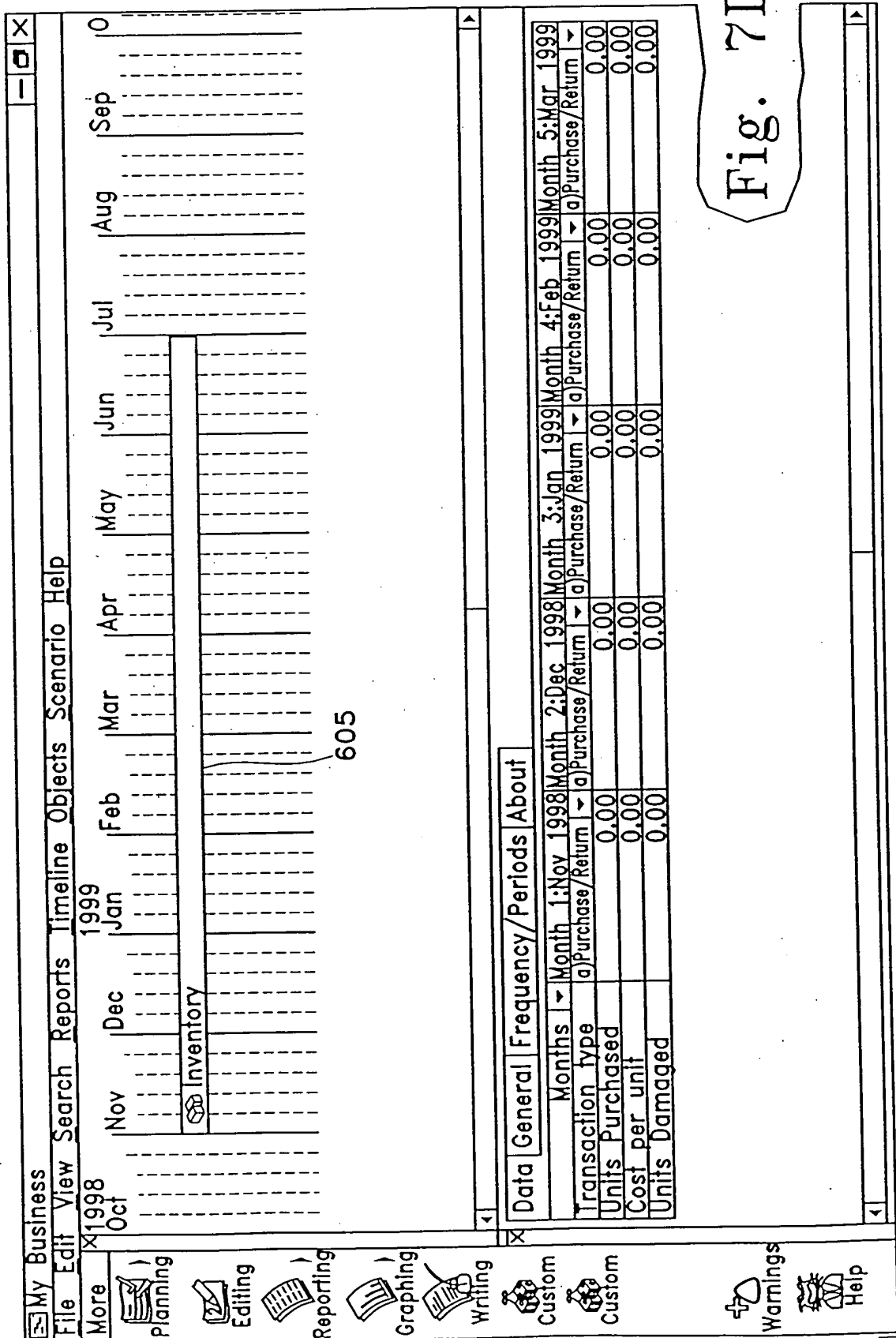
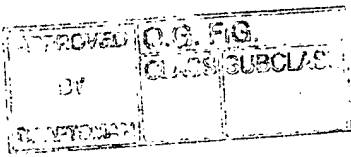
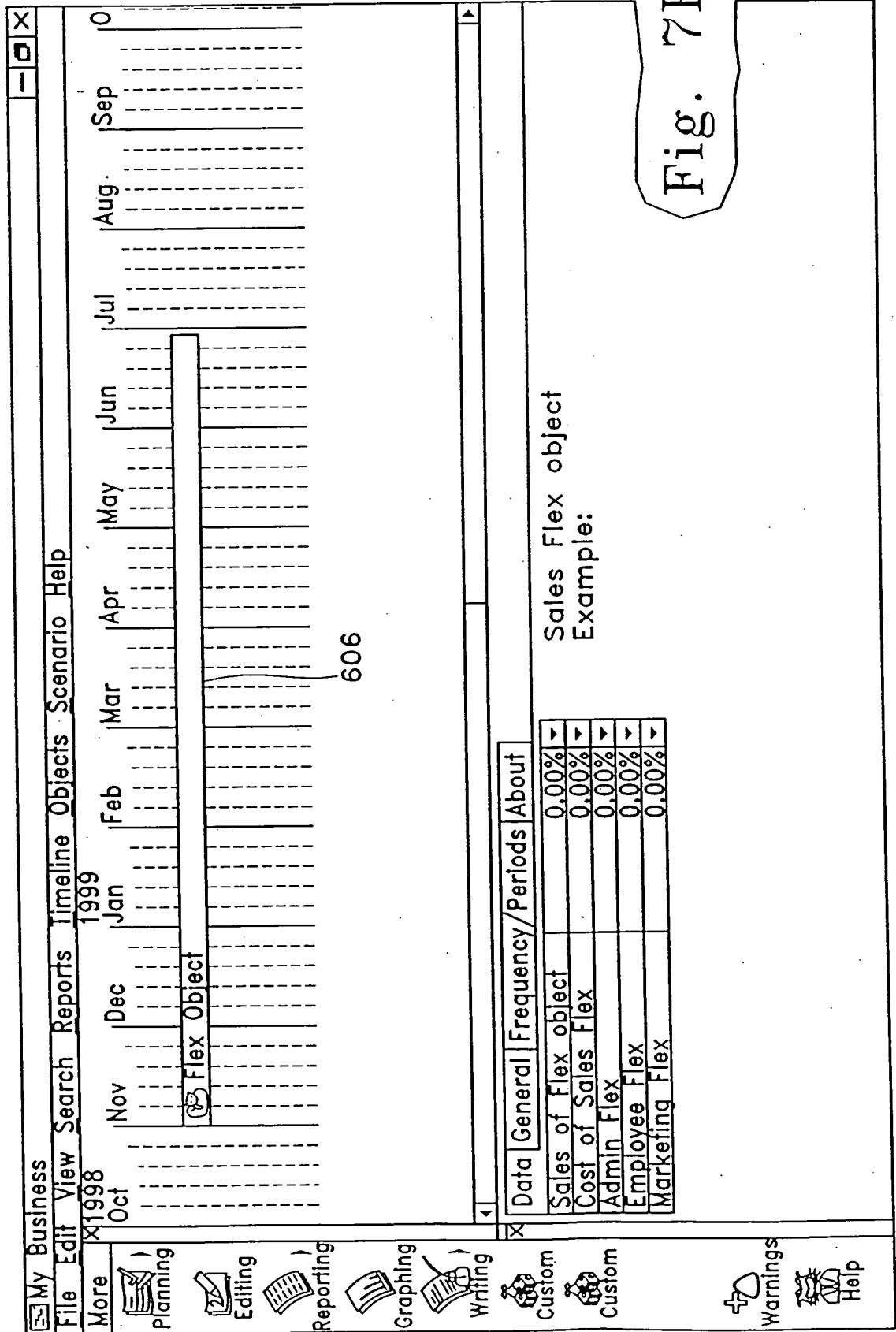


Fig. 7D



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Fig. 7E



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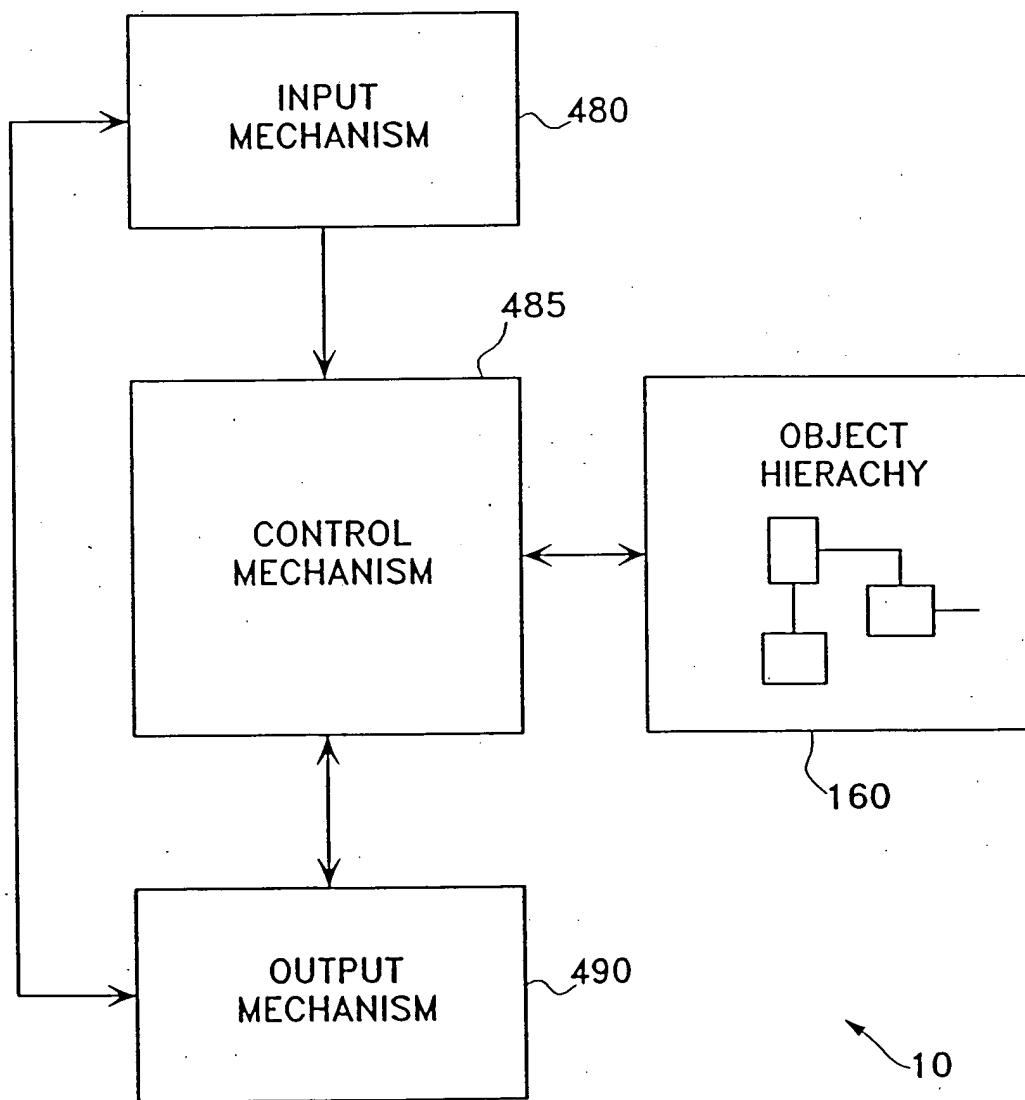


Fig. 8

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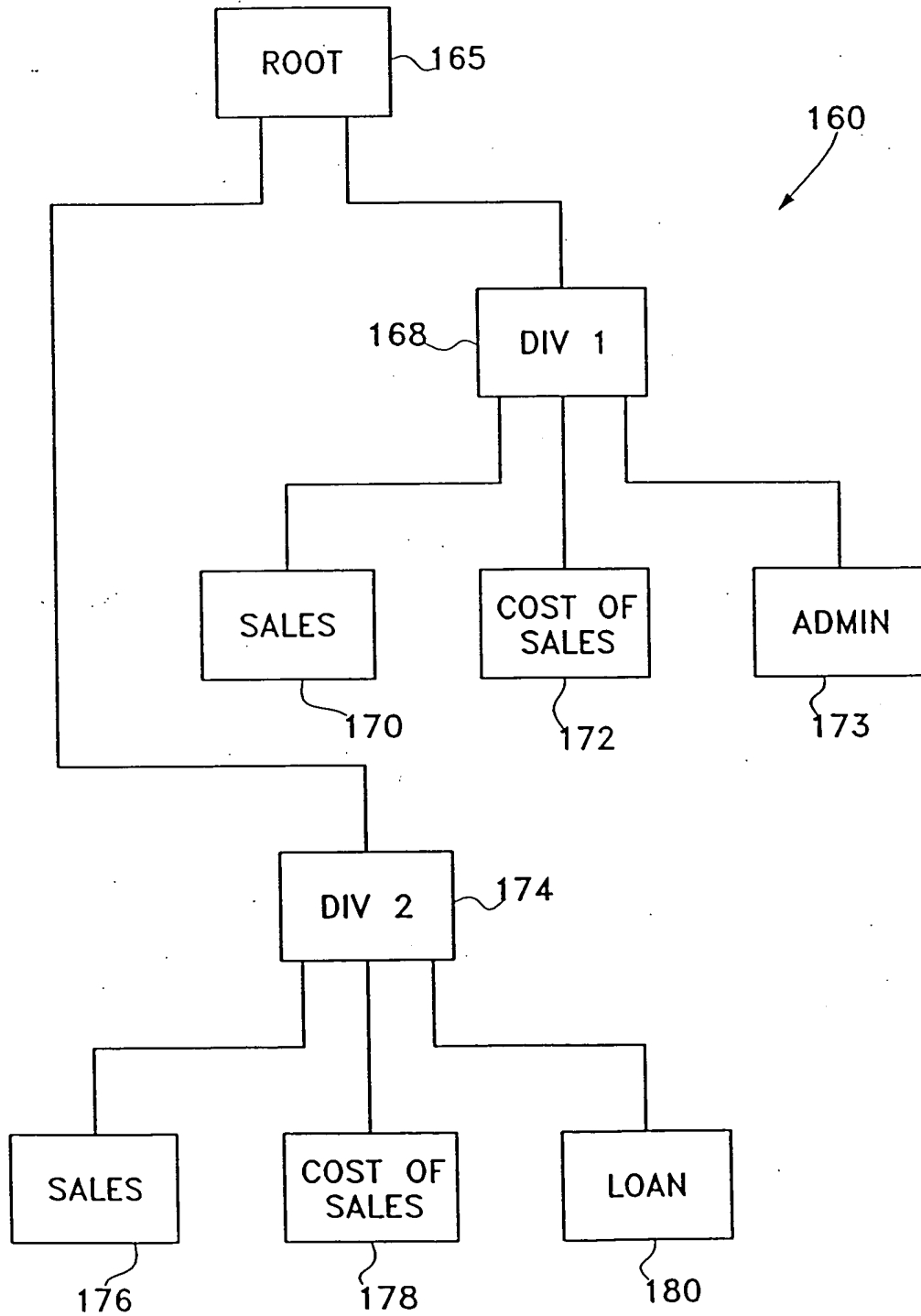


Fig. 9

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Fig. 10

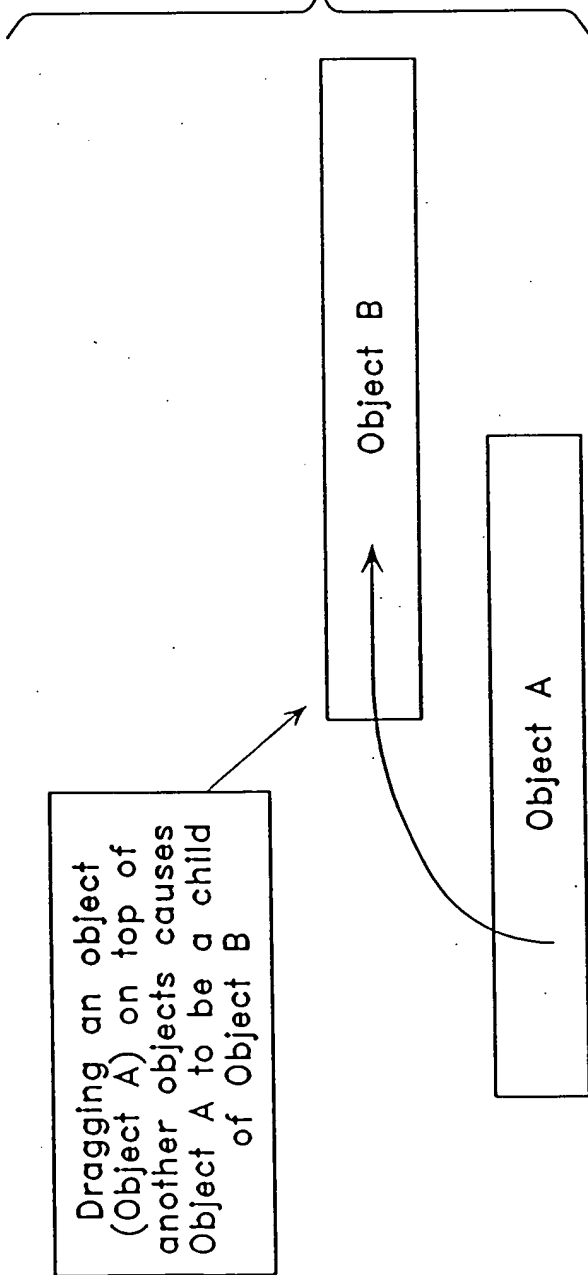
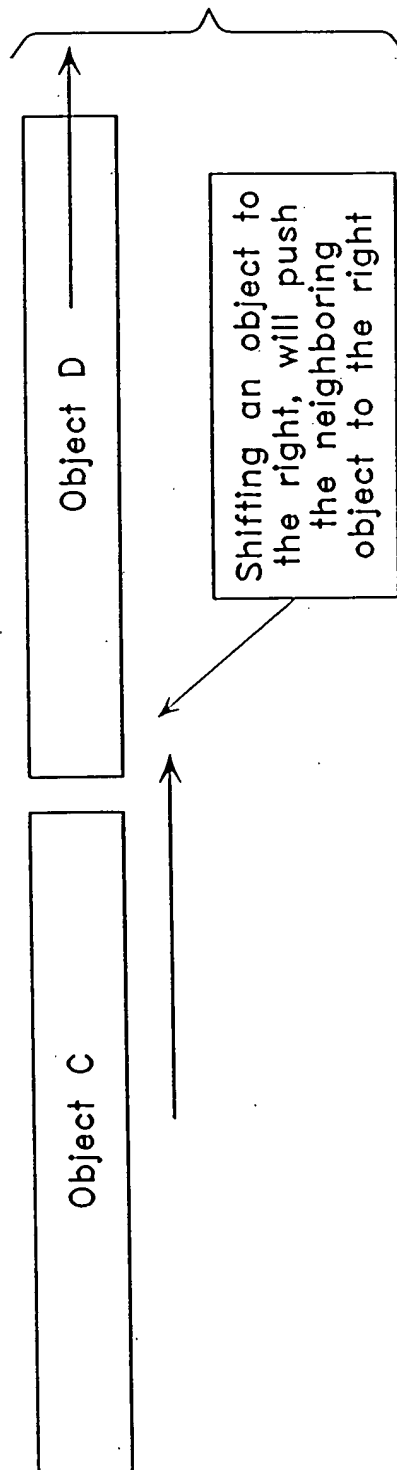


Fig. 11



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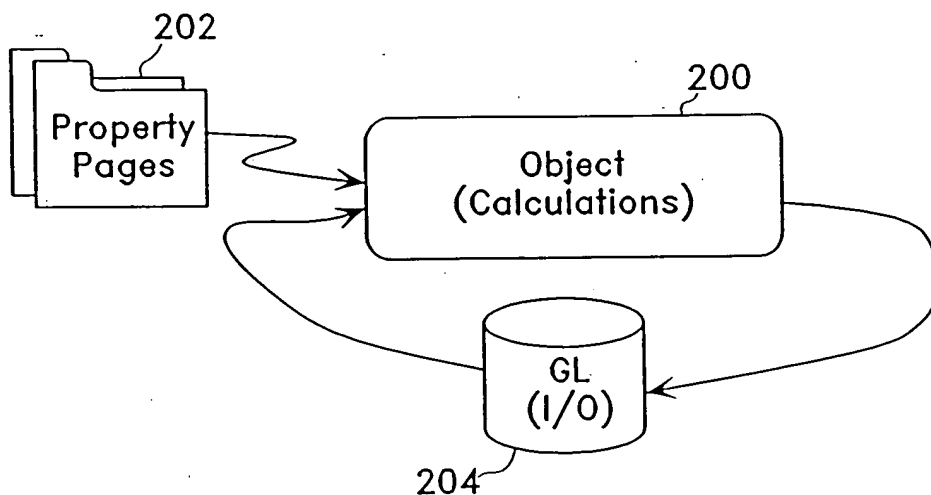


Fig. 12

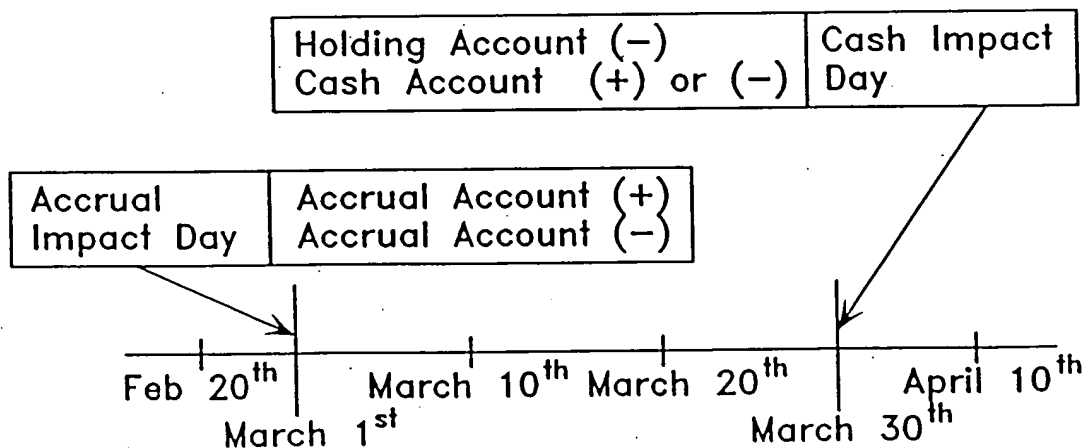


Fig. 13

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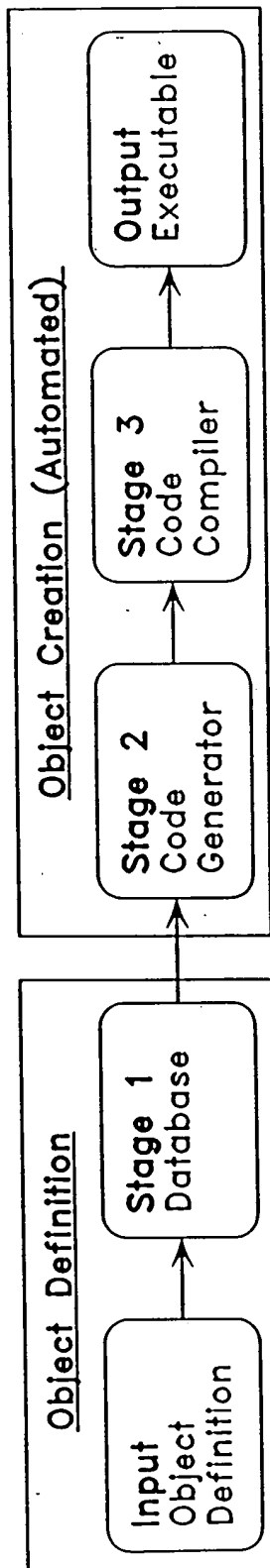


Fig. 14

Property Entry		Comments/Who/When
Property ID	szCostOutput	Usage Example: The company could pay \$10.00 (cost of materials) for fabric and \$5.00 (direct cost) to ship the materials Keywords: BOD Notes:
Caption	Type of Cost	
Description	The type of cost being recorded.	
String List	a) Materials; b) Direct Cost	
Type	String List	
Multiple Items	Sum	
<input checked="" type="checkbox"/> Format as Currency <input type="checkbox"/> Format as Percentage <input type="checkbox"/> Is this a global property		

Property List

Fig. 15

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Account Entry

Remember you specify the "prefix" in the relations tab and not as part of the "Account Name"

Account Name: Trade

Caption: Sales

Description: Total Sales for all products

Rep Order: 5330 Type: Account

☒ Format as Currency
☐ Format as Percentage
☐ On reports default to account change

Relations **Comments** **Who/When**

Account Prefix	Direction
rv	Increase
cf	Increase
ar	Increase
*	Increase

Parent

Account Prefix	Direction
arReceivable	
cfRevenue	
rvRevenue	

Child

Account Prefix	Direction
arTrade	
cfTrade	
rvTrade	

Fig. 16

Chart of Accounts

id	Parent ID	Child ID	Contribution Mode
315	acInventoryCount	acInventoryCountPurchase	Add
916	acInventoryCount	acInventoryCountSale	Add
924	acInventoryCount	acInventoryCountWriteOff	Add
894	bsLiabilityLongTerm	acPrincipleOutstanding	Add
878	acStaff	acStaffAdmin	Add

Fig. 17

Object									
Name		Sales							
Calculations		Input Details		Criteria		User Notes		Development Notes	
Input Summary		Children							
Property ID	Order	Caption	Default	Read Only	Show				
▶ s:SalesType	1	Sales are in:	b) Dollars	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
▶ f:NumSale	2	Number of units		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
▶ f:UnitPrice	3	Unit price		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
▶ f:RevenueAmount	5	Revenue amount		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
▶ f:SalesTax	6	Sales Tax		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
▶ f:MarketingSalesType	100	Resulting Sales based on:	0	<input type="checkbox"/>	<input type="checkbox"/>				
▶	101		1	<input type="checkbox"/>	<input type="checkbox"/>				
◀				<input type="checkbox"/>	<input checked="" type="checkbox"/>				

Calculations

Calculation Options

Description: update the inventory on hand if this is a sale

Output Account

ocInventoryCountSale

C++ Code ☐

Equation `([szSalesType]**"a")?[=sNumSale]:0`

Record: ◀ ▶ 🔍 1 of 5

Copy Print Current Object Maintain Properties

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Input Summary									
Property ID			Order			Caption		Default	Read Only Show
▶	szSalesType	▶	1			Sales are in:			<input checked="" type="checkbox"/>
	fNumSale	▶	2			Number of units		b) Dollars	<input checked="" type="checkbox"/>
	fUnitPrice	▶	3			Unit Price			<input checked="" type="checkbox"/>

Fig. 18A

204779" 5/9/99

204770" 6/9/4997

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Calculation	Calculation Options
Description	update the inventory on hand if this is a sale
Output Account Equation	<div>acInventoryCountSale <input type="checkbox"/></div> <div>([^szSalesType]== "a")?[^fNumSale]:0</div>
Record <input type="checkbox"/> of 5	

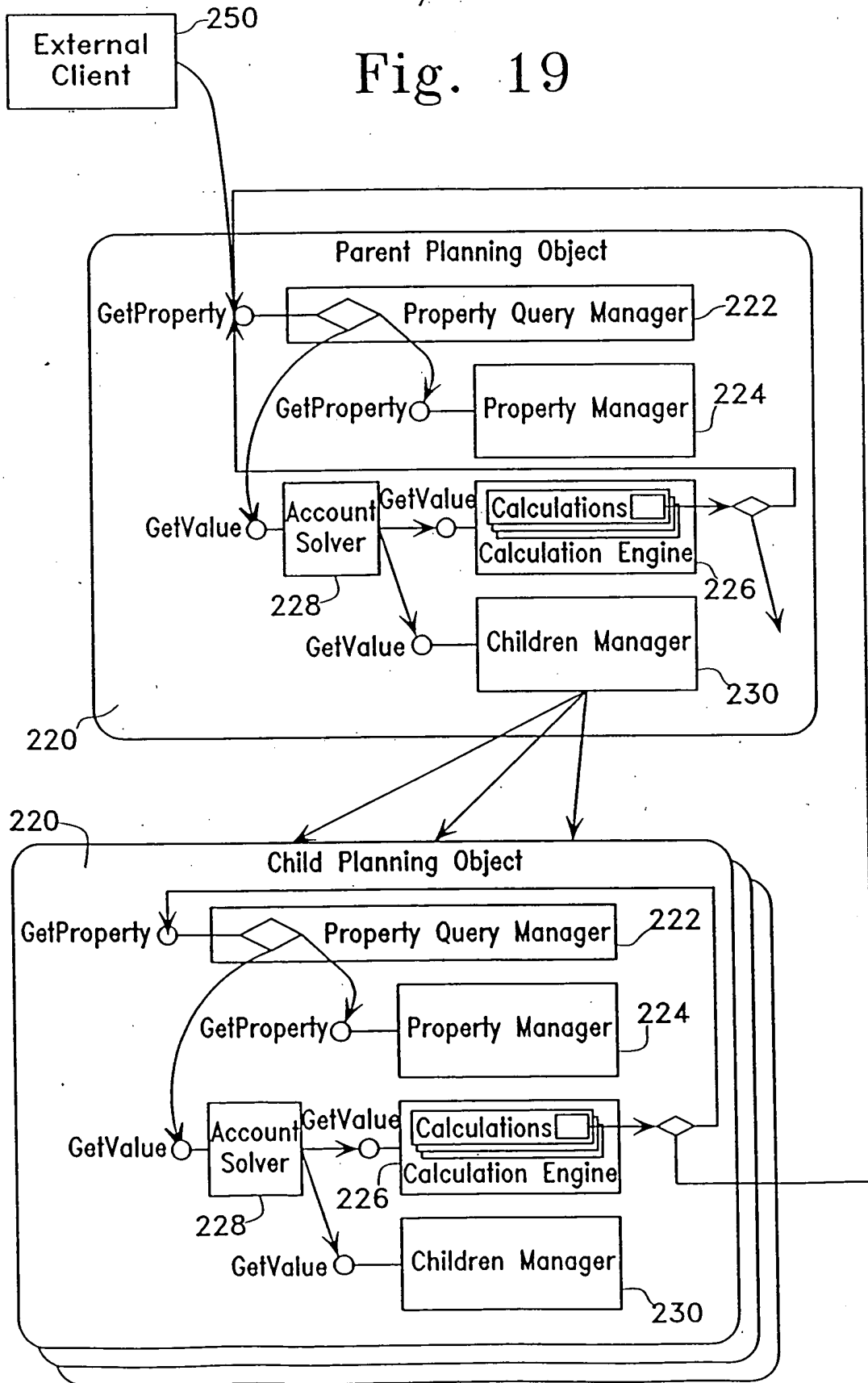
Fig. 18B

Calculation	Calculation Options
Description	update the inventory on hand if this is a sale
Accounts effected at object	<div><input type="radio"/> Beginning <input type="radio"/> End</div> <div><input checked="" type="radio"/> Regular Intervals <input type="checkbox"/></div> <div><input type="radio"/> Specific Date</div>
Product Segmentation	Loop Products <input type="checkbox"/>
Disable Scope Optimization	<input type="checkbox"/>
Skip Self	<input type="checkbox"/>
Value is time	<div><input checked="" type="radio"/> Dependent</div> <div><input type="radio"/> Independent</div>
Record <input type="checkbox"/> of 5	

Fig. 18C

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Fig. 19



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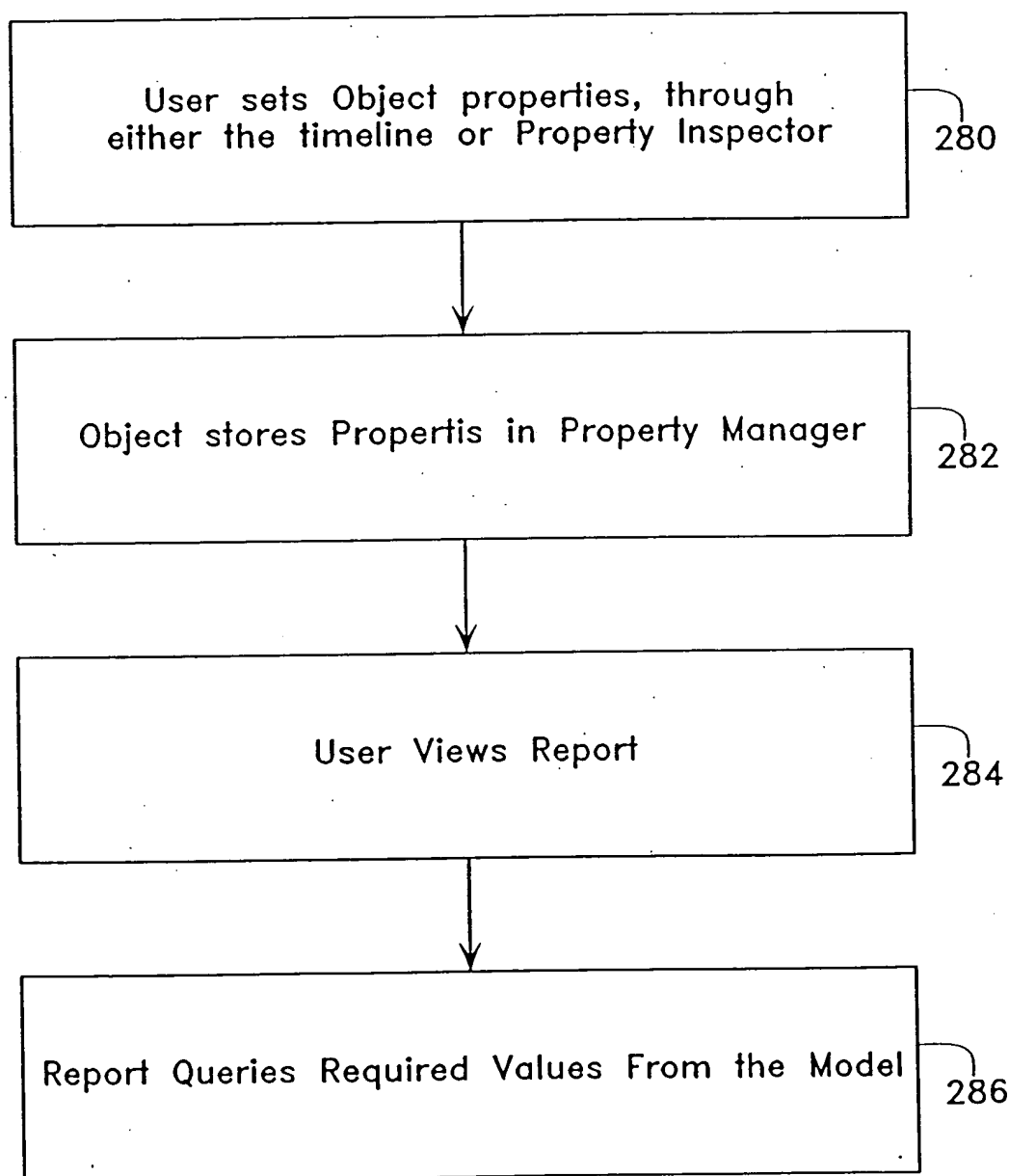
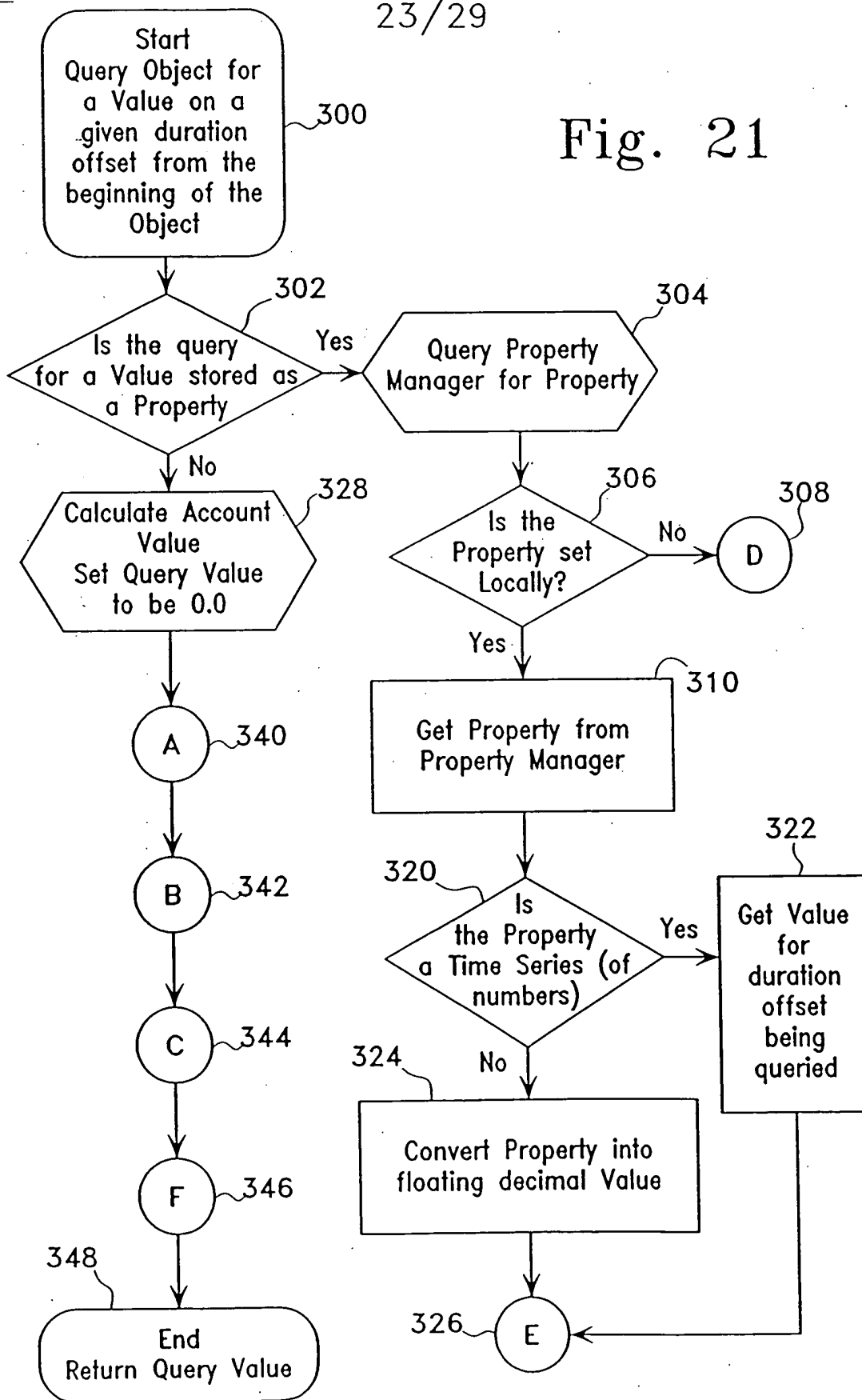


Fig. 20

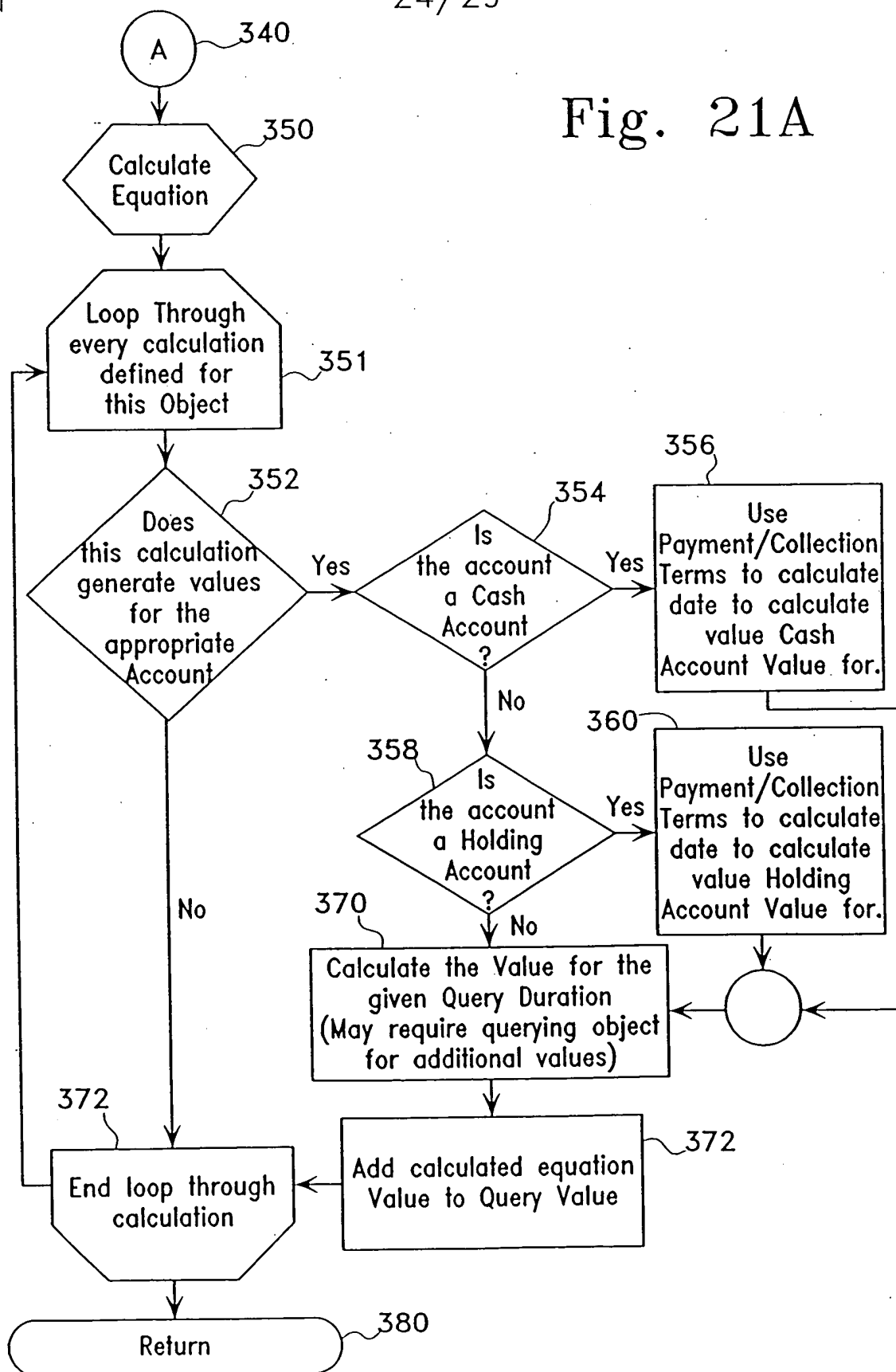
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Fig. 21



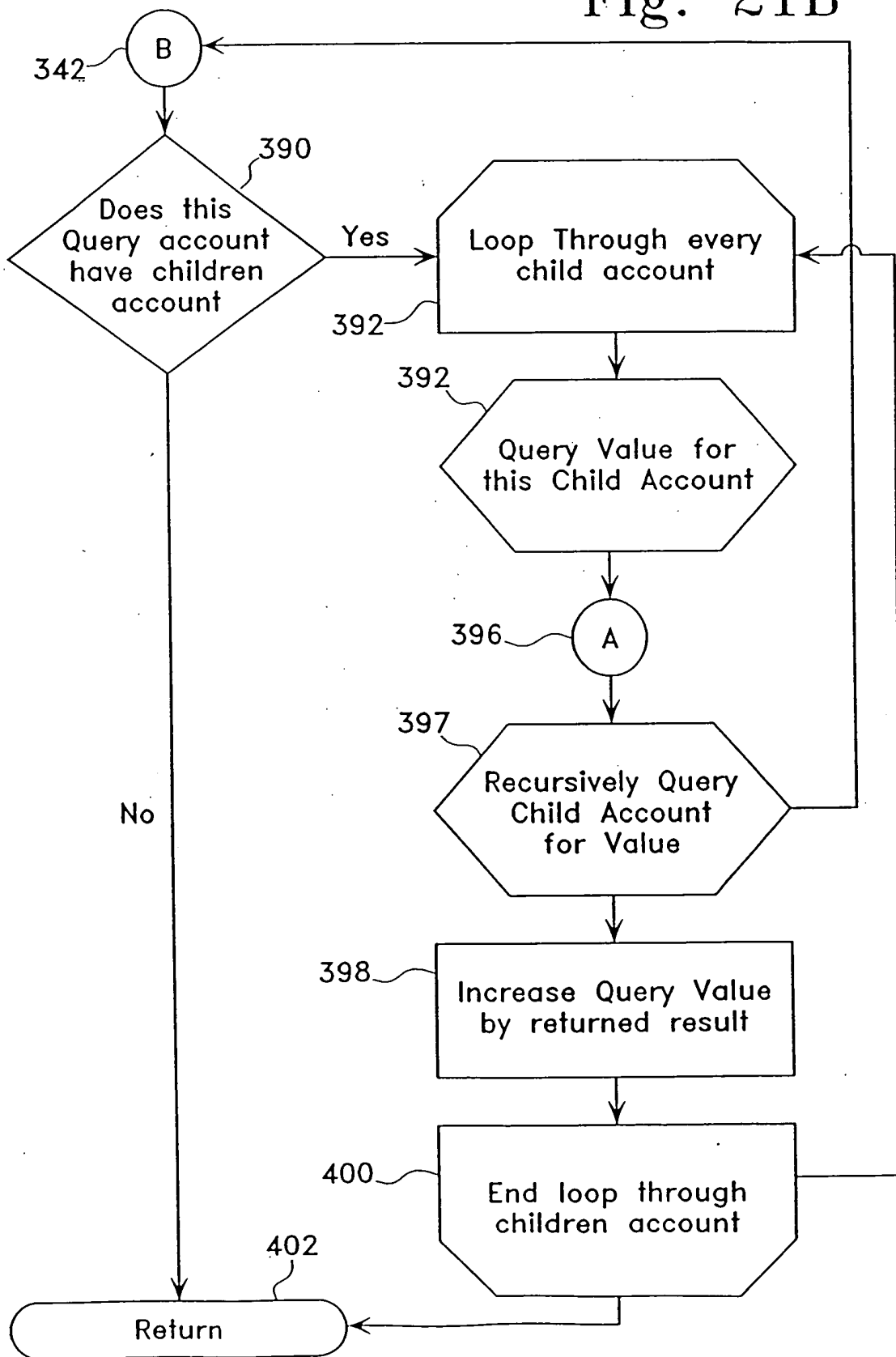
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Fig. 21A



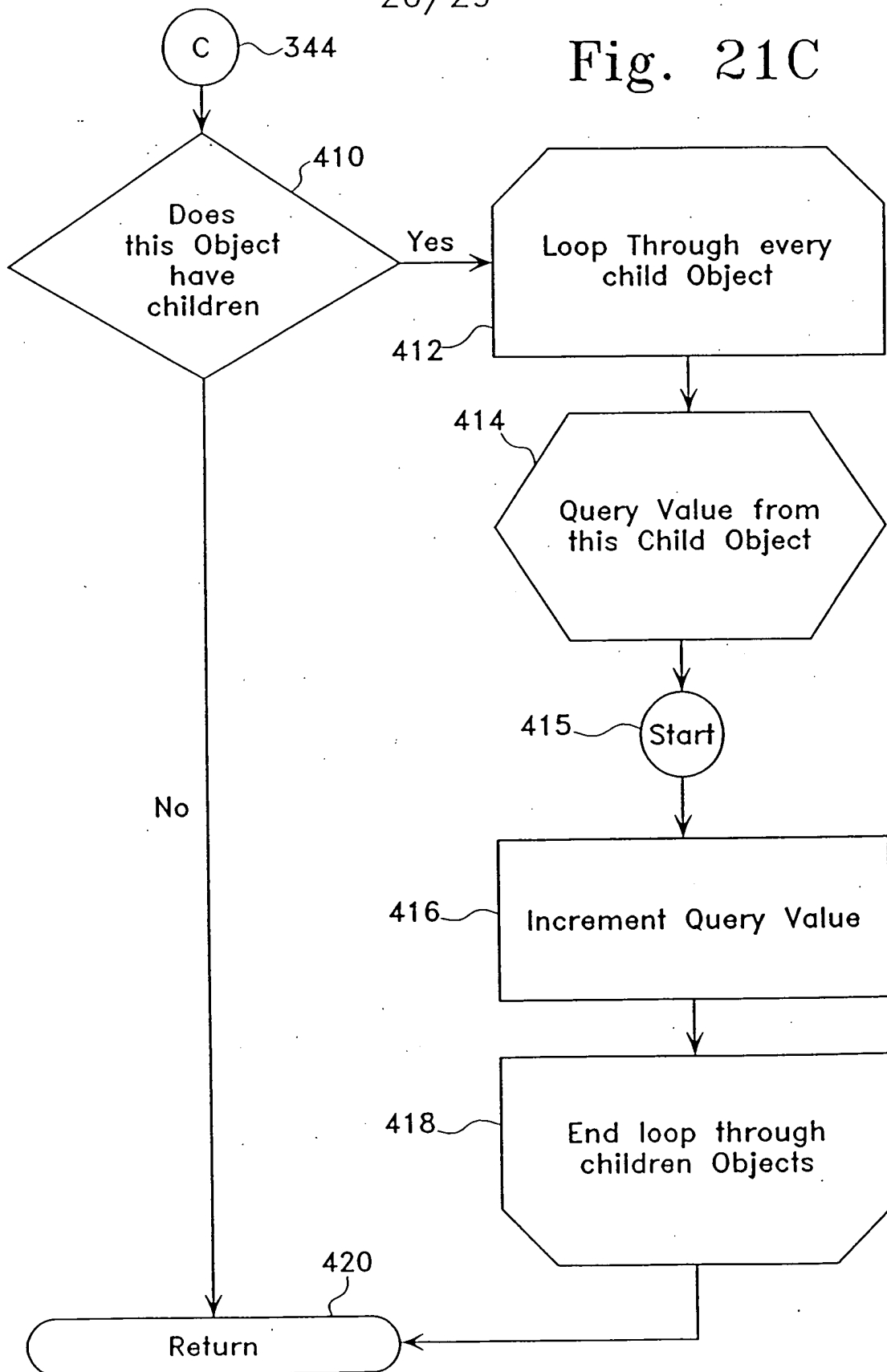
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Fig. 21B



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Fig. 21C



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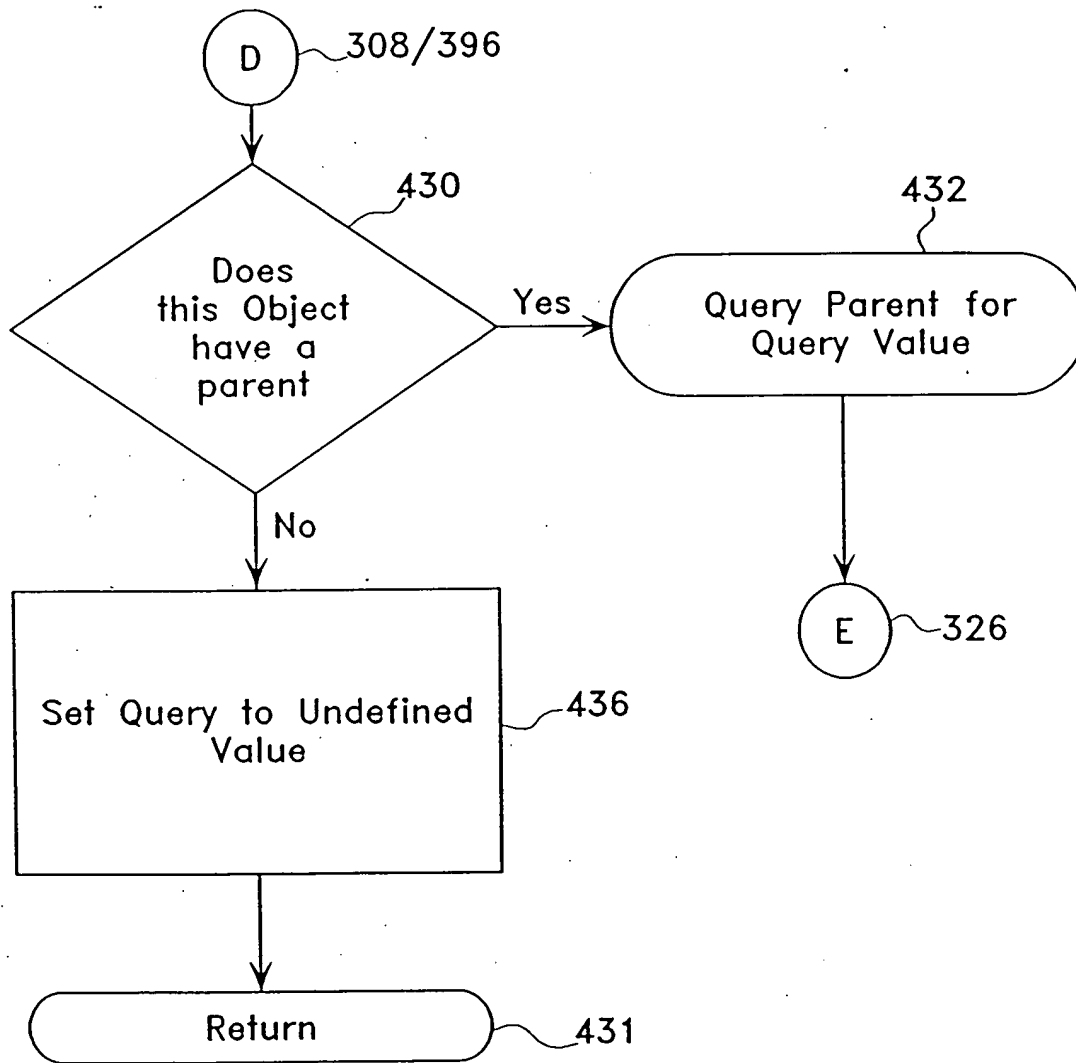
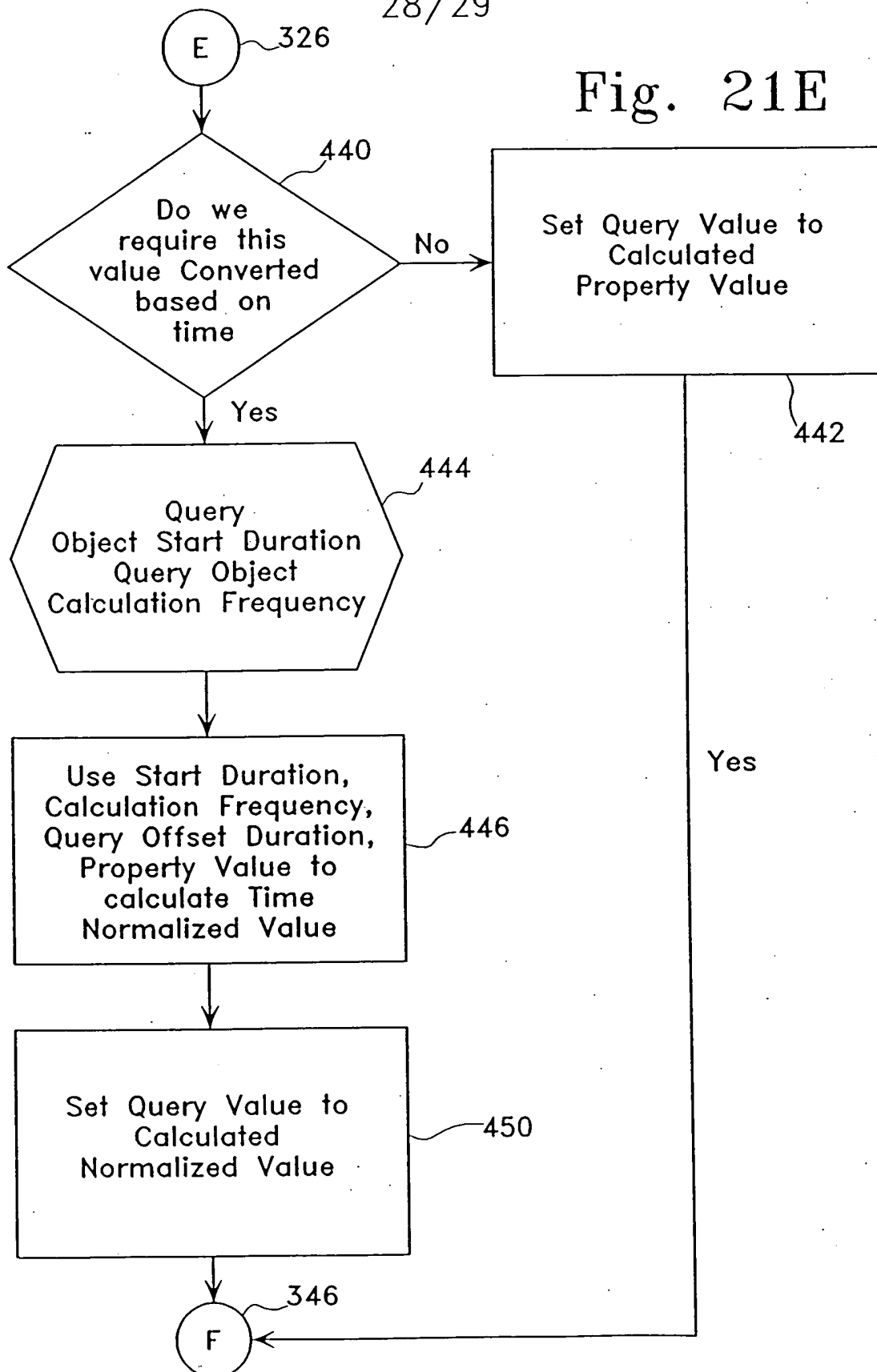


Fig. 21D

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Fig. 21E



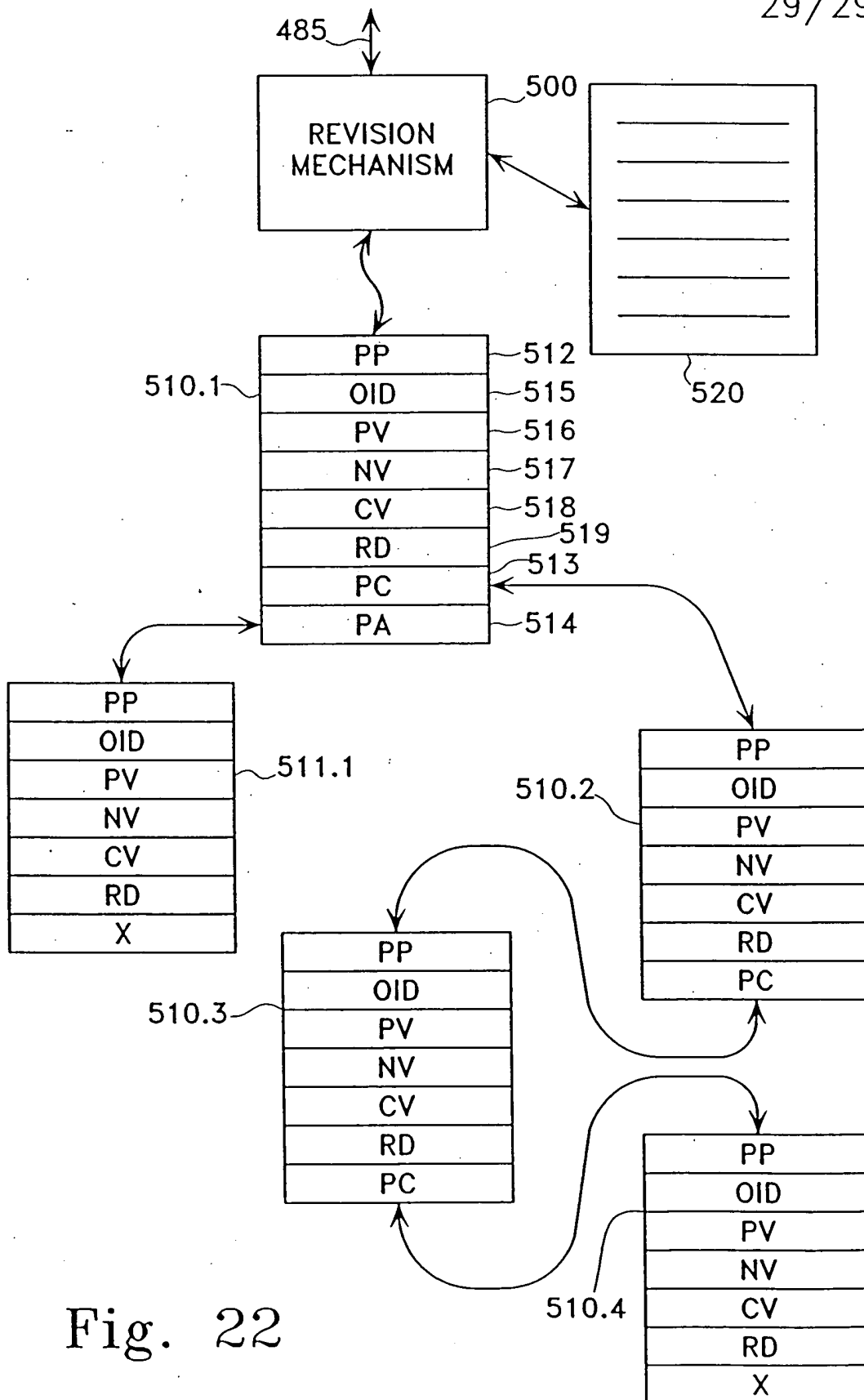


Fig. 22